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SPACE OPERATIONS CONTROL CENTER
(GODDARD SPACE FLIGHT CENTER)
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, ✓
GREENBELT, MARYLAND

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SATELLITE SITUATION REPORT, ✓

June 6, 1961

[4]

The following report reflects data computed and compiled by
Goddard Space Flight Center, NORAD, and the Smithsonian Astrophysical
Observatory as of 1200Z on June 6, 1961.


HARRY E. CARPENTER JR.
HEAD, Operations Control Branch

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE</u>	<u>PERIGEE</u>	<u>TRANSMITTING FREQ. (MC/S.)</u>
1958 ALPHA	EXPLORER I	US	1 FEB 58	106.5	33.19	1116	217	
1958 BETA 1	ROCKET BODY	US	17 MAR 58	138.3	34.25	2688	406	
1958 BETA 2	VANGUARD I	US	17 MAR 58	133.8	34.24	2450	404	108.022
1958 ALPHA 1	VANGUARD II	US	17 FEB 59	125.3	32.88	2047	343	
1959 ALPHA 2	ROCKET BODY	US	17 FEB 59	129.6	32.92	2279	347	
1959 DELTA	EXPLORER VI	US	7 AUG 59	POSITION UNCERTAIN				
1959 ETA	VANGUARD III	US	18 SEP 59	129.8	33.38	2317	322	
1959 IOTA 1	EXPLORER VII	US	13 OCT 59	101.1	50.31	669	344	19.9904
1959 IOTA 2	ROCKET BODY	US	13 OCT 59	100.9	50.30	661	342	
1960 ALPHA*	PIONEER V	US	11 MAR 60	311.6D	3.35	.9931AU	.8061AU	
1960 BETA 1	ROCKET BODY	US	1 APR 60	99.1	48.41	464	429	
1960 BETA 2	TIROS I	US	1 APR 60	99.1	48.39	467	429	107.997
1960 BETA 3	NONE	US	1 APR 60	97.9	48.46	446	375	
1960 GAMMA 1	ROCKET BODY	US	13 APR 60	91.2	51.25	240	179	
1960 GAMMA 2	TRANSIT 1B	US	13 APR 60	95.0	51.28	418	229	
1960 GAMMA 4	NONE	US	13 APR 60	96.8	51.20	468	291	
1960 EPSILON 1	SPUTNIK IV	USSR	15 MAY 60	92.6	65.02	323	175	
1960 EPSILON 3	NONE	USSR	15 MAY 60	93.4	64.89	374	172	
1960 EPSILON 4	NONE	USSR	15 MAY 60	POSITION UNCERTAIN				
1960 ZETA 1	MIDAS II	US	24 MAY 60	94.3	33.00	315	297	
1960 ETA 1	TRANSIT 2A	US	22 JUN 60	101.6	66.77	649	389	
1960 ETA 2	GREB	US	22 JUN 60	101.6	66.77	657	381	
1960 ETA 3	ROCKET BODY	US	22 JUN 60	101.4	66.77	643	383	
1960 IOTA 1	ECHO 1	US	12 AUG 60	117.0	47.26	1051	875	
1960 IOTA 2	ROCKET BODY	US	12 AUG 60	118.0	47.22	1048	932	
1960 IOTA 3	METAL OBJECT	US	12 AUG 60	118.1	47.20	1049	941	
1960 IOTA 4	METAL OBJECT	US	12 AUG 60	118.2	47.37	1045	950	
1960 IOTA 5	METAL OBJECT	US	12 AUG 60	118.3	47.20	1060	940	
1960 NU 1	COURIER 1B	US	4 OCT 60	106.9	28.30	751	604	107.9709
1960 NU 2	ROCKET BODY	US	4 OCT 60	106.4	28.30	765	560	
1960 XI 1	EXPLORER VIII	US	3 NOV 60	112.6	49.98	1412	262	
1960 XI 2	ROCKET BODY	US	3 NOV 60	112.4	49.98	1408	259	
1960 XI 3	NONE	US	3 NOV 60	111.4	49.98	1357	249	
1960 XI 4	NONE	US	3 NOV 60	111.4	49.98	1357	249	

OBJECTS IN ORBIT (CONT'D)

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION - NATION</u>	<u>APOGEE</u>	<u>PERIGEE</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1960 PI 1	TIROS II	US	23 NOV 60	98.2	48.57	461	378	108.0; 108.03
1960 PI 2	ROCKET BODY	US	23 NOV 60	98.1	48.57	456	378	
1960 PI 3	NONE	US	23 NOV 60	98.1	48.57	439	394	
1960 PI 4	NONE	US	23 NOV 60	98.3	48.57	462	383	
1961 ALPHA 1	SAMOS II	US	31 JAN 61	94.9	97.40	342	295	
1961 ALPHA 2	METAL OBJECT	US	31 JAN 61	94.9	97.40	0.581	1.0684AU 0.7104AU	
1961 GAMMA 1*	VENUS PROBE	USSR	12 FEB 61	291D	38.86	1532	413	
1961 DELTA 1	EXPLORER IX	US	16 FEB 61	118.2	38.63	1614	395	
1961 DELTA 2	ROCKET BODY	US	16 FEB 61	118.4	38.63	118.1	38.87	
1961 DELTA 3	NONE	US	16 FEB 61	118.4	38.63	1590	400	
1961 DELTA 4	NONE	US	16 FEB 61	118.1	38.87	POSITION UNCERTAIN		
1961 EPSILON 1	DISCOVERER XX	US	17 FEB 61	94.7	80.91	448	176	
1961 EPSILON 4	NONE	US	17 FEB 61	95.5	80.91	427	246	
1961 ZETA	DISCOVERER XXI	US	18 FEB 61	96.6	80.74	583	154	
1961 KAPPA	EXPLORER X	US	25 MAR 61	POSITION UNCERTAIN				
1961 LAMBDA 1	DISCOVERER XXIII	US	8 APR 61	93.6	82.31	375	183	
1961 LAMBDA 2	CAPSULE	US	8 APR 61	100.5	81.94	842	126	
1961 LAMBDA 3	NONE	US	8 APR 61	98.8	81.94	743	123	
1961 NU	EXPLORER XI	US	27 APR 61	107.9	28.80	1106	309	108.058

* APHELION, PERHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.

THE DECAYED OBJECTS LIST AND LUNAR AND SPACE PROBES LIST REMAIN UNCHANGED.

APOGEE-PERIGEE PLOT

Chart I of this report shows the change in the Apogee and Perigee of the Echo I satellite. The Column on the left side of the chart indicates the height of the element in miles above the surface of the earth. Each division moving across the chart represents two days referenced to the launch date, August 12, 1960.

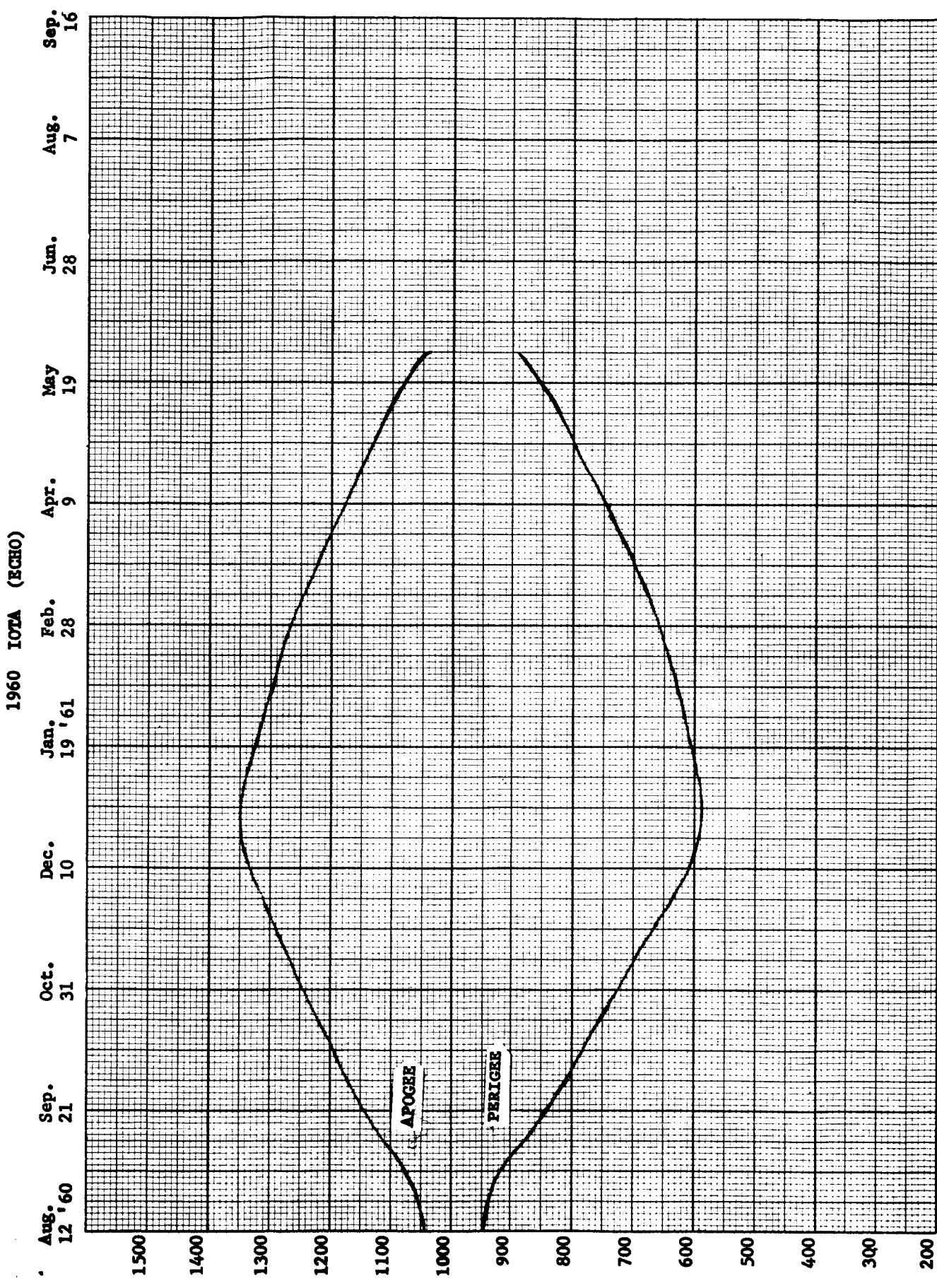


CHART I. APOGEE - PERIGEE VS. TIME